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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/696,000	10/26/2000	Keiichiro Ishihara	35.C14893	3466	
5514	7590 05/17/2002				
FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112			EXAMINER		
			PHAN, JAMES		
			ART UNIT	PAPER NUMBER	
DA			2872	2872	
			DATE MAILED: 05/17/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.



Office Action Summary

Application No. 09/696,000 Applicant(s)

Ishihara

Office Action Summary				
		Examiner James Phan	Art Unit 2872	
·	The MAILING DATE of this communication appears	on the cover sheet with the corre	spondence addre.	SS
A SHOTHE No. Extens	for Reply ORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.136 (a). In g date of this communication.			5 from the
- If NO p - Failure - Any re	period for reply specified above is less than thirty (30) days, a reply within to period for reply is specified above, the maximum statutory period will apply a to reply within the set or extended period for reply will, by statute, cause to ply received by the Office later than three months after the mailing date of the platent term adjustment. See 37 CFR 1.704(b).	and will expire SIX (6) MONTHS from the mailir the application to become ABANDONED (35 U.S	ng date of this commur S.C. § 133).	nication.
Status 1) 💢	Responsive to communication(s) filed on <i>Mar 5, 20</i>	002		·
2a) 🗌	This action is FINAL . 2b) 💢 This act	tion is non-final.		
3) 🗆	Since this application is in condition for allowance closed in accordance with the practice under Ex pa			merits is
· _	tion of Claims			
4) [X]	Claim(s) <u>1-20</u>	is/are	e pending in the	application.
	4a) Of the above, claim(s) <u>10-18, 19/(10-18) and 20</u>			om consideration.
5) 🗆	Claim(s)		is/are allowed.	
6) 💢	Claim(s) 1-5, 8-9, 19/(1-5,8-9) and 20/(1-5,8-9)		is/are rejected.	
7) 💢	Claim(s) <u>6-7, 19/(6-7) and 20/(6-7)</u>		is/are objected	to.
8) 🗆	Claims	are subject to restric	ction and/or elec	ction requirement.
Applica	ation Papers			
9) 🗆	The specification is objected to by the Examiner.			
10)	The drawing(s) filed on is/are	e a) \square accepted or b) \square objecte	ed to by the Exa	ıminer.
	Applicant may not request that any objection to the o	-		
11)	The proposed drawing correction filed on	is: a) approved	b) disapprov	ed by the Examiner.
	If approved, corrected drawings are required in reply			
	The oath or declaration is objected to by the Exam	iner.		
	under 35 U.S.C. §§ 119 and 120) (d) == (\$)	
_	Acknowledgement is made of a claim for foreign p \Box All b) \Box Some* c) \Box None of:	Priority under 35 U.S.C. 3 119(a))-(a) or (t).	
	1. Certified copies of the priority documents have	vo boon received		
	2. Certified copies of the priority documents have		No	
	3. Copies of the certified copies of the priority d			tage
	application from the International Bure ee the attached detailed Office action for a list of th	eau (PCT Rule 17.2(a)).		
14)	Acknowledgement is made of a claim for domestic	priority under 35 U.S.C. § 119	(e).	
a) ☐ 15) ☐	The translation of the foreign language provisions Acknowledgement is made of a claim for domestic			
Attachm				
1) 💢 No	otice of References Cited (PTO-892)	4) Interview Summary (PTO-413) Paper	No(s).	
	otice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal Patent Application	(PTO:152)	
3) X Inf	formation Disclosure Statement(s) (PTO-1449) Paper No(s)	6) Other:		

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DETAILED ACTION

Election/Restriction

1. Applicant's election with traverse of the species (1) in Paper No. 5 is acknowledged. The traversal is on the ground(s) that amended claims now recite an optical scanning apparatus and thus all claims constitute a single species. This is not found persuasive because the change in preamble of the amended claims does not make the amended claims unpatentably distinct from claims of the species (1). The non-elected species (2), including amended claims, does require light source means having a plurality of light-emitting regions for providing a plurality of light beams, while the species (1) does not. Furthermore, the species (1) does require at least a search in class 347, subclasses 256, and 258-261, while the species (2) does not; and the species (2) does require at least a search in class 359, subclass 204, and class 347, subclasses 233, 241 and 243-244, while the species (1) does not.

The requirement is still deemed proper and is therefore made FINAL.

2. Claims claims 10-18, 19/(10-18) and 20/(10-18) are withdrawn from further consideration pursuant to 37 CAR 1.142(b), as being drawn to a nonelected species.

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Claim Objections

3. Claim 8 is objected to because of the following informalities: claim 8 is misdescriptive because ">= 2" (line 3) should be --<= .6-- (see original claim 6). Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-5, 8-9, 19/(1-5,8-9) ans 20/(1-5, 8-9) are rejected under 35 U.S.C. 102(b) as being anticipated by Yamazaki (Figs. 1 and 5 and column 8, lines 5-21).

Yamazaki discloses a scanning optical system which comprises light source means (1), deflecting means (4), and scanning optical means which includes a first lens and a second lens located between the deflecting means and a surface to be scanned (7) (see Fig. 1). In column 8, Yamazaki discloses that a plurality of non-symmetrical surfaces with respect to the optical axis may be included/utilized (lines 18-21), Yamazaki further discloses that the curvature of the non-symmetrical surface in the auxiliary direction varies from the center to the periphery along the main scanning direction (Fig. 5 and column 8, lines 22-24).

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In re claim 3 see Fig. 5.

In re claim 4 Fig. 5 clearly shows the curvatures in the sagittal direction become large on the side of the light source means. Note that the prior art discloses that the lens located on the side of a scanned surface includes a non-symmetrical surface, and the non-symmetrical surface is located on the side of a polygonal mirror (lines 5-9). From Fig. 5 "the side of the polygonal mirror" is "on the side of the light source means".

In re claim 5 Fig. 5 clearly shows the inflection point where the optical axis and the surface intersected.

In re claim 8 the claimed condition "k/W <= .6" is inherently disclosed because the effective scanning width W would be much larger than the coefficient k. Note that the lenses of the prior art has the F-0 lens characteristic (see column 2, line 61 to column 3, line 9) and thus, they have been taken as $F-\theta$ lenses.

In re claim 9 see column 4, lines 48-49.

In re claims 19/(10-18) and 20/(10-18) the claimed features are inherently disclosed because the disclosed optical scanning apparatus is used for a laser beam printer (column 1, lines 5-14.

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Allowable Subject Matter

5. Claims 6-7, 19/(6-7) and 20/(6-7) are objected to as being dependent upon a rejected base

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claim, but would be allowable if rewritten in independent form including all of the limitations of

the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: none 6.

of the cited references teaches or fairly suggests an optical scanning apparatus having the

structure defined by claims 6-7, 19/(6-7) and 20/(6-7)

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to James Phan whose telephone number is (703) 308-4810. The fax phone

number for this Group is (703) 308-7722.

Phan, J.

May 14, 2002